

Section VII. Technical Specifications

Notes for Preparing the Technical Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying their Bids. In the context of Competitive Bidding, the specifications (*e.g.* production/delivery schedule, manpower requirements, and after-sales service/parts, descriptions of the lots or items) must be prepared to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of transparency, equity, efficiency, fairness, and economy in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation and post-qualification facilitated. The specifications should require that all items, materials and accessories to be included or incorporated in the goods be new, unused, and of the most recent or current models, and that they include or incorporate all recent improvements in design and materials unless otherwise provided in the Contract.

Samples of specifications from previous similar procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the goods and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate subsection. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in manufacturing similar goods. Deletions or addenda should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized Philippine and international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest edition or revision of the relevant standards and codes shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable they should always be followed by the words "*or at least equivalent.*" References to brand names cannot be used when the funding source is the GOP.

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Entity with the Bidding Documents. Similarly, the Supplier may be requested to provide drawings or samples either with its Bid or for prior review by the Procuring Entity during contract execution.

Bidders are also required, as part of the technical specifications, to complete their statement of compliance demonstrating how the items comply with the specification.

Technical Specifications

Item No.	Specification	Statement of Compliance
		<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder’s statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>
1	<p>BRANDED ALL IN ONE DESKTOP</p> <p>23.8-inch FHD (1920 x1080); 16:9 250nits Wide View Anti-Glare Display; Intel Core i5-1240P processor (P-core from 1.7 GHz up to 4.4 GHz; E-core from 1.2 GHz up to 3.3 GHz, 12 MB cache, 4 P-core, 8 E-core, 16-thread, 28W); 8GB DDR4 SO-DIMM, Dedicated Graphics Card 2GB GDDR5; 512GB M.2 NVMe™ PCIe® 3.0 SSD; Wi-Fi 5(802.11ac)+BT5.0 (Dual band) 2*2 - Gigabit WiFi; 720p HD camera; Built-in microphone; Built-in speaker; Windows 11 Pro, Office Home and Student 2021; AC Adapter; 3.5mm combo audio jack; USB 2.0 Type-A; DC-in; RJ45 Gigabit Ethernet; HDMI in; HDMI out; USB 3.2 Gen1 Type-A(4); wired keyboard and optical mouse; 1 Year Warranty</p>	

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2	<p>BRANDED LAPTOP</p> <p>Operating System: Windows 10 Home; Display: 14 inches IPS; Resolution: 2160 x 1440, 185 PPI; Maximum Brightness: 300 nits (Typical), Viewing Angle: 178° degrees; Processor: AMD Ryzen™5 4600H; Graphics: AMD Radeon™ Graphics; Memory: 16 GB DDR4 2,666 MHz; Battery: Capacity: 56 W; Wireless: Wi-Fi: IEEE 802.11a/b/g/n/ac, 2.4 GHz and 5 GHz, 2 x 2 MIMO, WPA/WPA2/WPA3, Bluetooth 5.0; Camera: 720p HD Recessed camera, Video Recording/Video chat, Speaker Power: (2W/) (2), Microphone; Ports: USB 3.2 Gen 1x2, USB-C x1, 3.5 mm headset and microphone 2-in-1 jack (1), HDMI (1); Storage: 512 GB PCIe NVMe SSD; Keyboard And Touchpad: Full-size backlit chiclet keyboard, Touchpad and featuring multi-point touching); 1 Year Warranty</p>	
3	<p>SMART TV SET</p> <p>Display Screen Size: 65" Refresh Rate: 60Hz Resolution: 3,840 x 2,160 Picture Engine: Crystal Processor 4K PQI: 2200; HDR, HDR 10 HLG (Hybrid Log Gamma); Dynamic Crystal Color, Brightness/Color Detection; LED Clear Motion; Dolby Digital Plus: MS12 2ch; Sound Output (RMS): 20W; Speaker Type: 2CH with Multiroom Link, Bluetooth Audio, Dual Audio Support (Bluetooth), TV Sound to Mobile; Connectivity HDMI(3) USB(2); Ethernet (LAN); RF In (Terrestrial / Cable input): 1/1(Common Use for Terrestrial)/0 HDMI A; Wireless LAN Built-in (WiFi5); Bluetooth; Additional Feature Auto Channel Search; Caption (Subtitle); IPv6 Support; Accessory Remote Controller Slim Fit Wall-mount Support; Optional Stand Support; Mini Wall Mount Support; Vesa Wall Mount Support; Full Motion Slim Wall Mount Support</p>	
4	<p>BRANDED MULTI-FUNCTIONAL PRINTER</p> <p>Printer Type: Inkjet; Print Head: Mono-Piezo with 210 nozzles (1); Colour: Piezo 7 with 70 nozzles (3); Memory Capacity: 128 MB, Liquid Crystal Display (LCD): 16 characters line, Automatic Document Feeder (ADF) : Up to 20 pages, Paper: 80 gsm; Colour/Monochrome Scanner: Colour/Monochrome TWAIN Compliant WIA Compliant Colour Depth: 30 bit colour processing (Input), 24 bit colour processing (Output); Resolution: Up to 19200 × 19200 dpi (interpolated) Wireless LAN: IEEE 802.11b/g/n (Infrastructure) IEEE 802.11g/n (Wi-Fi Direct)</p>	

5	<p>PROJECTOR</p> <p>Projection System: 3LCD Technology, LCD Panel: 0.63 inch with MLA (D7) Image: Color Light Output: 3,500 Lumen- 2,450 Lumen (economy), White Light Output: 3,500 Lumen - 2,450 Lumen (economy); Resolution: XGA, 1024 x 768, 4:3, Aspect Ratio: 4:3, Contrast Ratio 10,000: 1, Lamp: 200 W, 5,000 h durability, 6,000 h durability (economy mode); Throw Ratio 1.40 - 1.68:1;Zoom Manual, Factor: 1.2;Screen Size 30 inches - 300 inches; Connectivity: USB Display Function: 3 in 1: Image / Mouse / Sound, Interfaces: USB 2.0 Type A, USB 2.0 Type B, HDMI in, Composite in, Component in, S-Video in, RGB in, VGA in, Ad-Hoc / Infrastructure ; Security: Kensington lock, Security cable hole, Wireless LAN security, AV Mute Slide, Built-inspeaker, Direct Power on/off, Document Camera Compatible, Horizontal and vertical keystone correction, Network projection, Wireless LAN capable, Video Color Modes: Blackboard, Dynamic, Presentation, Sports, SGB, Theatre, Whiteboard; Loudspeaker: 2 Watt)</p>	
6	<p>BRANDED SPEAKER</p> <p>Total Power:500W ;Tweeter Driver Size:2.5' 8 ohm Mid-Woofer Driver Size:6.5' / 3 ohm; Sound Modes: (Party, Standard, Mono, Hiphop, EDM, Rock, Latin, House, Reggae); Connectivity: USB Music Playback, Bluetooth, Bluetooth Codec: apt; Bluetooth Multi Connection, USB Host; Bluetooth Power On; Audio Input: 3.5mm Wired Group Play; Wireless Group Play; Karaoke Mic In: Accessory Remote Controller; Party Lighting: (Party, Ambient, Dance, Thunderbolt, Star, Lover); Bass Booster; DJ Effect:(Noise, Filter, Crush, Chorus, Wahwah); Karaoke</p>	
<p>***** Nothing Follows*****</p>		

Additional Requirements:

The technical specifications that shall be submitted by the Bidder, shall include among others:

- a. *Product specifications as supported by brochures or catalogues for all items;*
- b. *Bidder's certification for one (1) year warranty for all items;*
- c. *Bidder's certification of the availability of Service Center within the Region X for all items; and*
- d. *Certification from manufacturer/distributor that bidder is authorized to resell for Item nos. 1, 2, 4, and 5 only.*